

**FIG. 1**  
PRIOR ART

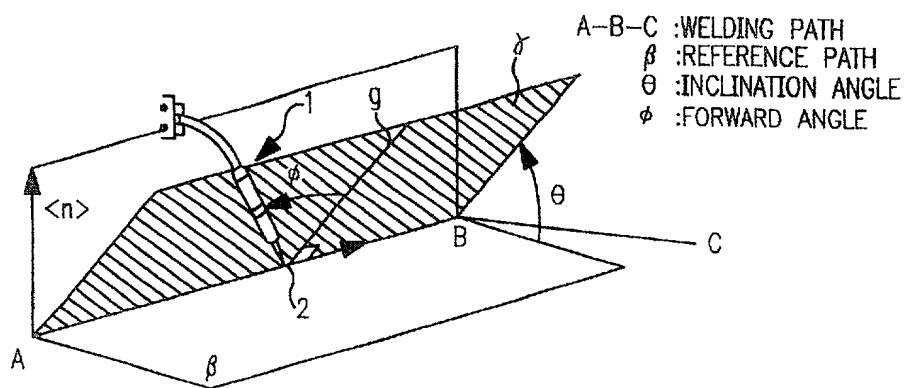


FIG. 3

FIG. 2A

TEACH ROUGHLY BY JOG FEED ONLY POSITIONS A,B...F  
WITHOUT PAYING ATTENTION TO THE ORIENTATION

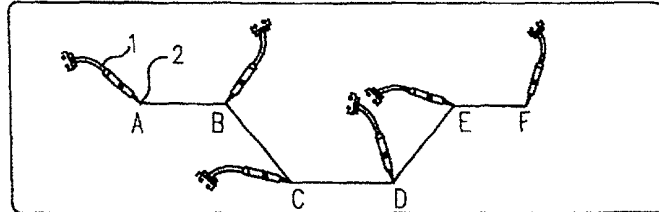


FIG. 2B

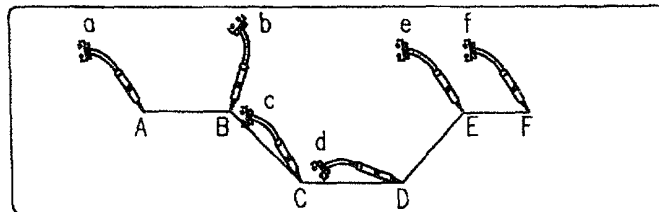
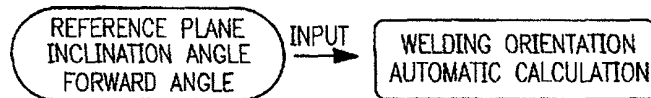
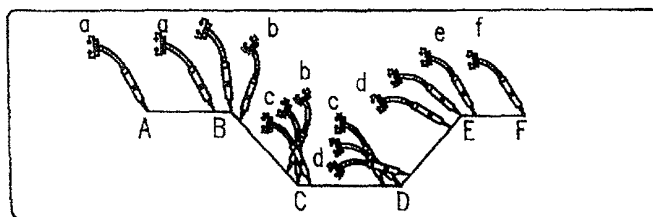


FIG. 2C



ARC WELDING EXECUTION



UTILITY/TORCH ORIENTATION/TRANSFORMATION//////////AXIS////50%/

PROGRAM

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1 TRANSFORMATION SOURCE PROGRAM: [TEST]  
2 SCOPE: PART  
3 START ROW: 34  
4 END ROW: 38  
5 PRODUCED/REPLACED: /REPLACED/  
6 PROGRAM DESTINED TO BE TRANSFORMED: (UNUSED) [\* \* \* \* \*]  
7 INSERTION ROW: (UNUSED) \* \* \* \* \*

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[SCREEN]

>

FIG. 6

UTILITY/TORCH ORIENTATION/TRANSFORMATION//////////AXIS////50%/

DIRECT INPUTTING TORCH ORIENTATION

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1 REFERENCE PLANE TEACHING: YES  
2 P1: /TEACHING EXECUTED /  
3 P2: TEACHING EXECUTED  
4 P3: TEACHING EXECUTED  
5 INCLINATED ANGLE: . 00 deg  
6 FORWARD ANGLE: . 00 deg

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[SCREEN] TRANSFORMATION REFER TO POSITION STORE POSITION>

FIG. 7

Variable	Mean	SD	Min	Max
Age	34.5	10.2	18	65
Gender	Male	100%		
Marital status	Married	100%		
Education	High school	100%		
Occupation	Farmer	100%		
Income	Low	100%		
Health status	Good	100%		
Smoking status	Non-smoker	100%		
Alcohol consumption	None	100%		
Family size	3.5	1.2	1	6
Household size	4.2	1.5	1	8
Land area	2.5	0.8	1	4
Water access	Yes	100%		
Electricity access	Yes	100%		
Health insurance	Yes	100%		
Health facility	Local	100%		
Health worker	Male	100%		
Health worker experience	5 years	3.5	1	10
Health worker education	High school	100%		
Health worker occupation	Farmer	100%		
Health worker income	Low	100%		
Health worker health status	Good	100%		
Health worker smoking status	Non-smoker	100%		
Health worker alcohol consumption	None	100%		
Health worker family size	3.2	1.1	1	6
Health worker household size	4.0	1.4	1	8
Health worker land area	2.2	0.7	1	4
Health worker water access	Yes	100%		
Health worker electricity access	Yes	100%		
Health worker health insurance	Yes	100%		
Health worker health facility	Local	100%		
Health worker health worker	Male	100%		
Health worker health worker experience	5 years	3.5	1	10
Health worker health worker education	High school	100%		
Health worker health worker occupation	Farmer	100%		
Health worker health worker income	Low	100%		
Health worker health worker health status	Good	100%		
Health worker health worker smoking status	Non-smoker	100%		
Health worker health worker alcohol consumption	None	100%		
Health worker health worker family size	3.2	1.1	1	6
Health worker health worker household size	4.0	1.4	1	8
Health worker health worker land area	2.2	0.7	1	4
Health worker health worker water access	Yes	100%		
Health worker health worker electricity access	Yes	100%		
Health worker health worker health insurance	Yes	100%		
Health worker health worker health facility	Local	100%		
Health worker health worker health worker	Male	100%		
Health worker health worker health worker experience	5 years	3.5	1	10
Health worker health worker health worker education	High school	100%		
Health worker health worker health worker occupation	Farmer	100%		
Health worker health worker health worker income	Low	100%		
Health worker health worker health worker health status	Good	100%		
Health worker health worker health worker smoking status	Non-smoker	100%		
Health worker health worker health worker alcohol consumption	None	100%		
Health worker health worker health worker family size	3.2	1.1	1	6
Health worker health worker health worker household size	4.0	1.4	1	8
Health worker health worker health worker land area	2.2	0.7	1	4
Health worker health worker health worker water access	Yes	100%		
Health worker health worker health worker electricity access	Yes	100%		
Health worker health worker health worker health insurance	Yes	100%		
Health worker health worker health worker health facility	Local	100%		
Health worker health worker health worker health worker	Male	100%		
Health worker health worker health worker health worker experience	5 years	3.5	1	10
Health worker health worker health worker health worker education	High school	100%		
Health worker health worker health worker health worker occupation	Farmer	100%		
Health worker health worker health worker health worker income	Low	100%		
Health worker health worker health worker health worker health status	Good	100%		
Health worker health worker health worker health worker smoking status	Non-smoker	100%		
Health worker health worker health worker health worker alcohol consumption	None	100%		
Health worker health worker health worker health worker family size	3.2	1.1	1	6
Health worker health worker health worker health worker household size	4.0	1.4	1	8
Health worker health worker health worker health worker land area	2.2	0.7	1	4
Health worker health worker health worker health worker water access	Yes	100%		
Health worker health worker health worker health worker electricity access	Yes	100%		
Health worker health worker health worker health worker health insurance	Yes	100%		
Health worker health worker health worker health worker health facility	Local	100%		
Health worker health worker health worker health worker health worker	Male	100%		
Health worker health worker health worker health worker health worker experience	5 years	3.5	1	10
Health worker health worker health worker health worker health worker education	High school	100%		
Health worker health worker health worker health worker health worker occupation	Farmer	100%		
Health worker health worker health worker health worker health worker income	Low	100%		
Health worker health worker health worker health worker health worker health status	Good	100%		
Health worker health worker health worker health worker health worker smoking status	Non-smoker	100%		
Health worker health worker health worker health worker health worker alcohol consumption	None	100%		
Health worker health worker health worker health worker health worker family size	3.2	1.1	1	6
Health worker health worker health worker health worker health worker household size	4.0			

1 NO. OF POSITIONS : /2/  
2 PITCH LENGTH : 3.00mm

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[SCREEN] EXECUTION

✓

FIG. 8



Variable	Mean	SD	Min	Max
Age (years)	50.1	10.2	35	65
Gender (Male/Female)	50/50			
Education (years)	12.5	2.1	8	16
Income (USD/month)	1500	300	1000	2000
Marital status (Married/Single)	70/30			
Occupation (Professional/Service)	60/40			
Health status (Good/Fair/Poor)	40/30/30			
Smoking status (Smoker/Non-smoker)	20/80			
Alcohol consumption (Yes/No)	10/90			
Exercise frequency (Regular/Irregular/None)	30/40/30			
Stress level (Low/Medium/High)	20/40/40			
Family size (1-3/4-5/6+)	30/40/30			
Health insurance (Yes/No)	90/10			
Chronic diseases (Hypertension/Diabetes/None)	20/10/70			
Medication use (Yes/No)	10/90			
Healthcare access (Easy/Difficult)	60/40			
Healthcare cost (Low/Medium/High)	30/40/30			
Healthcare quality (Satisfied/Dissatisfied)	40/60			
Healthcare accessibility (Good/Bad)	50/50			
Healthcare affordability (Affordable/Not affordable)	30/70			
Healthcare effectiveness (Effective/Not effective)	40/60			
Healthcare safety (Safe/Not safe)	50/50			
Healthcare transparency (Transparent/Not transparent)	30/70			
Healthcare accountability (Accountable/Not accountable)	40/60			
Healthcare responsiveness (Responsive/Not responsive)	30/70			
Healthcare equity (Equitable/Not equitable)	40/60			
Healthcare sustainability (Sustainable/Not sustainable)	30/70			
Healthcare innovation (Innovative/Not innovative)	20/80			
Healthcare leadership (Strong/Weak)	40/60			
Healthcare governance (Good/Bad)	50/50			
Healthcare regulation (Strict/Lax)	30/70			
Healthcare monitoring (Effective/Not effective)	40/60			
Healthcare evaluation (Thorough/Not thorough)	30/70			
Healthcare improvement (Continuous/Not continuous)	40/60			
Healthcare collaboration (Good/Bad)	50/50			
Healthcare communication (Open/Not open)	40/60			
Healthcare participation (Active/Not active)	30/70			
Healthcare empowerment (Empowered/Not empowered)	40/60			
Healthcare accountability (Accountable/Not accountable)	30/70			
Healthcare transparency (Transparent/Not transparent)	40/60			
Healthcare equity (Equitable/Not equitable)	30/70			
Healthcare sustainability (Sustainable/Not sustainable)	40/60			
Healthcare innovation (Innovative/Not innovative)	20/80			
Healthcare leadership (Strong/Weak)	40/60			
Healthcare governance (Good/Bad)	50/50			
Healthcare regulation (Strict/Lax)	30/70			
Healthcare monitoring (Effective/Not effective)	40/60			
Healthcare evaluation (Thorough/Not thorough)	30/70			
Healthcare improvement (Continuous/Not continuous)	40/60			
Healthcare collaboration (Good/Bad)	50/50			
Healthcare communication (Open/Not open)	40/60			
Healthcare participation (Active/Not active)	30/70			
Healthcare empowerment (Empowered/Not empowered)	40/60			
Healthcare accountability (Accountable/Not accountable)	30/70			
Healthcare transparency (Transparent/Not transparent)	40/60			
Healthcare equity (Equitable/Not equitable)	30/70			
Healthcare sustainability (Sustainable/Not sustainable)	40/60			
Healthcare innovation (Innovative/Not innovative)	20/80			
Healthcare leadership (Strong/Weak)	40/60			
Healthcare governance (Good/Bad)	50/50			
Healthcare regulation (Strict/Lax)	30/70			
Healthcare monitoring (Effective/Not effective)	40/60			
Healthcare evaluation (Thorough/Not thorough)	30/70			
Healthcare improvement (Continuous/Not continuous)	40/60			
Healthcare collaboration (Good/Bad)	50/50			
Healthcare communication (Open/Not open)	40/60			
Healthcare participation (Active/Not active)	30/70			
Healthcare empowerment (Empowered/Not empowered)	40/60			
Healthcare accountability (Accountable/Not accountable)	30/70			
Healthcare transparency (Transparent/Not transparent)	40/60			
Healthcare equity (Equitable/Not equitable)	30/70			
Healthcare sustainability (Sustainable/Not sustainable)	40/60			
Healthcare innovation (Innovative/Not innovative)	20/80			
Healthcare leadership (Strong/Weak)	40/60			
Healthcare governance (Good/Bad)	50/50			
Healthcare regulation (Strict/Lax)	30/70			
Healthcare monitoring (Effective/Not effective)	40/60			
Healthcare evaluation (Thorough/Not thorough)	30/70			
Healthcare improvement (Continuous/Not continuous)	40/60			
Healthcare collaboration (Good/Bad)	50/50			
Healthcare communication (Open/Not open)	40/60			
Healthcare participation (Active/Not active)	30/70			
Healthcare empowerment (Empowered/Not empowered)	40/60			
Healthcare accountability (Accountable/Not accountable)	30/70			
Healthcare transparency (Transparent/Not transparent)	40/60		</	

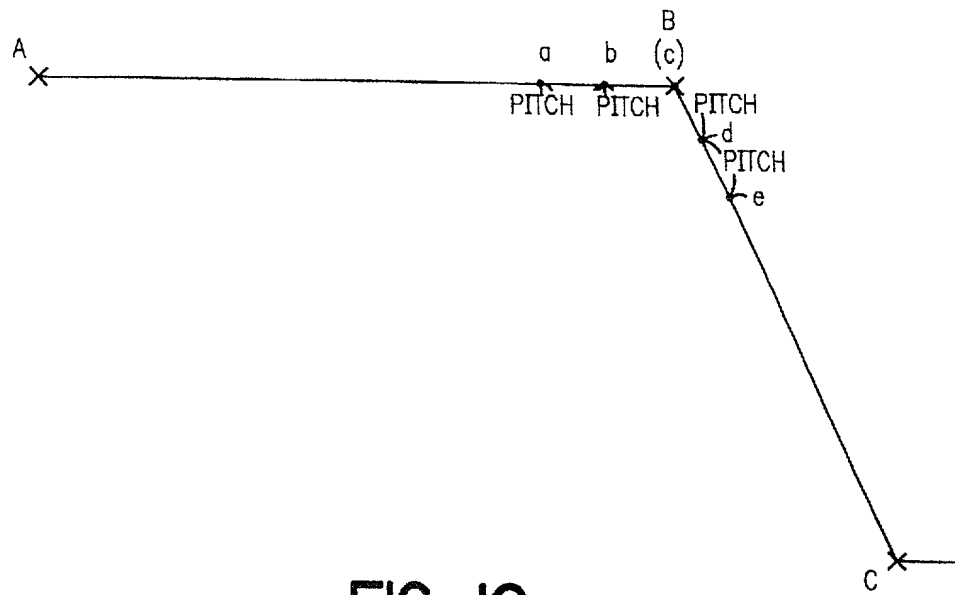


FIG. 10

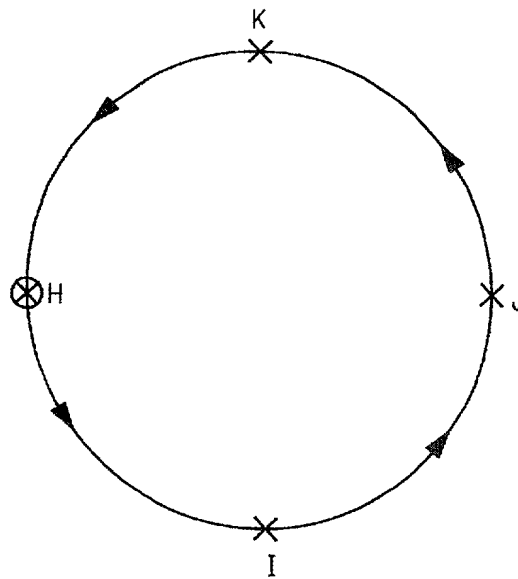


FIG. 11

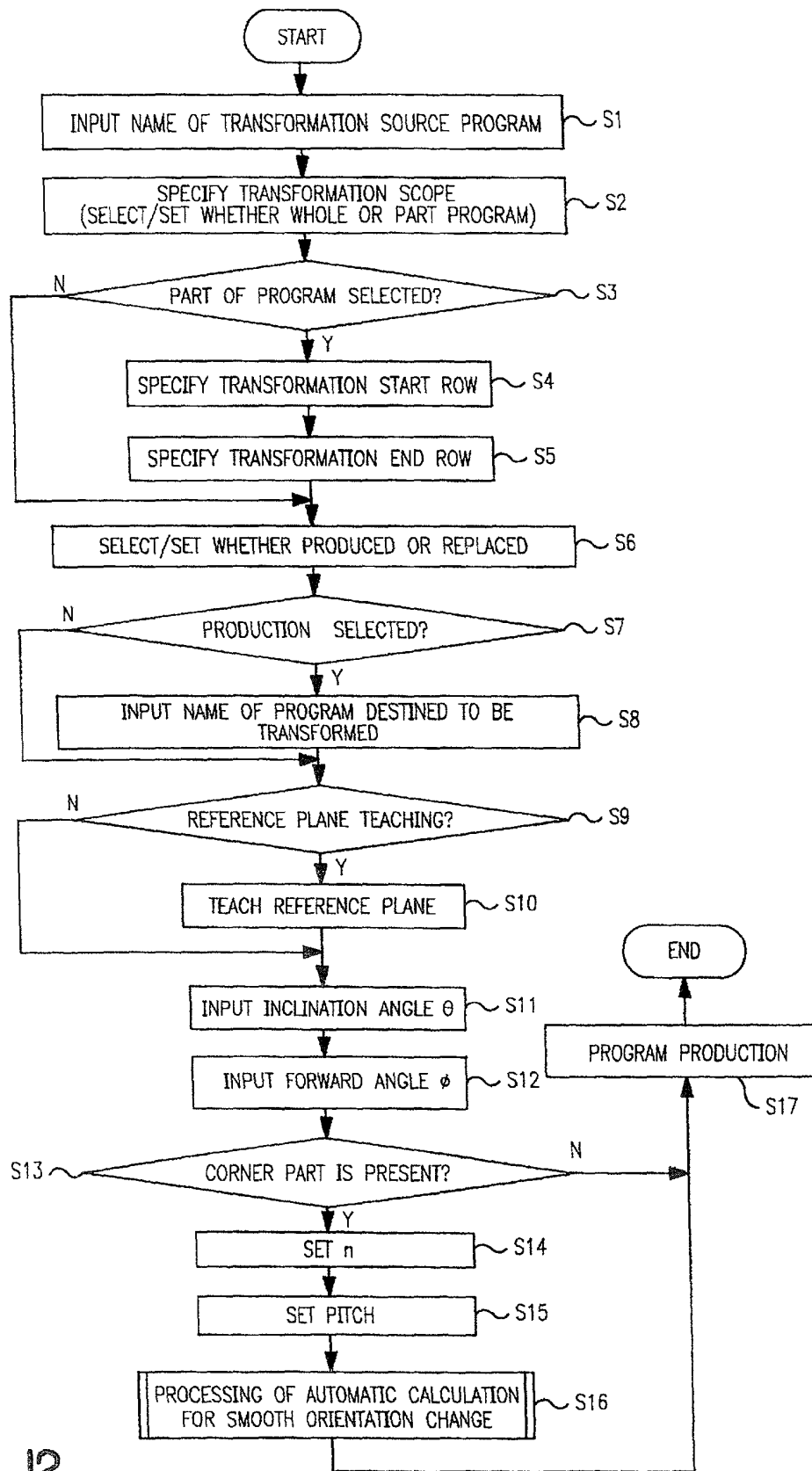


FIG. 12